



Rutherford County Government



**Hazard
Communication
(Hazcom) Training**

**Tennessee's
"Right-to-Know"**

Hazardous Communication- TN Right to Know

The Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard is designed to protect against illnesses and injuries. This standard is also called the Right to Know law because you have the right to know what chemicals you may be exposed to and how to protect yourself against those chemicals

TOSHA enforces the Tennessee Hazard Communication Chemical Right to Know Law containing requirements in addition to HAZCOM, 29 CFR 1910.1200, 29 CFR 1926.59, TDL Rule 0800-1-9

- *Annual training on hazardous chemicals
- *Maintenance of records
- *Labeling for non-containerized chemicals
- *Submission of chemical list to TOSHA upon request

The standard insures that employers and employees are provided with sufficient information to recognize chemical hazards and take appropriate protective measures. Employers are required to provide chemical hazard communication information through chemical inventory lists, safety data sheets (SDS), written program, labels and training.

Course Outline

Under this program, our objective is to

- ensure we know about work hazards in our area.
- know how to protect ourselves so injuries due to hazardous chemicals is reduced.
- learn the new Safety Data Sheet (SDS) sections and Globally Harmonized System (GHS) pictograms.
- learn where to find personal protective equipment needed for chemicals in our work area.

Hazardous Chemical

- A hazard is defined as an ***exposure associated with an unacceptable risk for illness or disease.***
- A chemical is defined as hazardous when it is classified as one of the following:
 - Health hazard
 - Physical hazard
 - Simple asphyxiant
 - Combustible dust
 - Pyrophoric gas
 - Hazard not otherwise classified

You need and have the Right to Know...

What are the requirements of the
hazard communication standard?

The TOSHA standard requires that Rutherford
County Government:

*Assess the hazards of chemicals in our
workplace and provide information on
those hazards to our employees.*

You need and have the Right to Know...

What Hazardous Chemicals am I exposed to or may be exposed to in an emergency?

- Solvents--xylene, toluene, acetone
- Corrosives--acids (HCl), bases (KOH)
- Dusts--wood, metal
- Mists--acid
- Fumes--welding
- Compressed gases—oxygen, acetylene, argon
- Flammables--gasoline

Check your department's inventory list.

You need and have the Right to Know...

Where are the chemicals present?



*Know where hazardous chemicals are used
and stored in your work area.*

You need and have the Right to Know...

What are the short & long term
effects of the chemicals?

*This information is located on SDS
section #4 First Aid measures and
11 Toxicological Information*

You need and have the Right to Know...

How can I detect if I'm overexposed?

*This information is located on SDS
section #4 First Aid measures and
11 Toxicological Information*

You need and have the Right to Know...

How can I protect myself?



Wear personal protective equipment when using the chemical listed in section #8 on the chemical's Safety Data Sheet

You need and have the Right to Know...

Where are the Safety Data Sheets and
written program in my department?



Be able to put your hands on this book.



Safety Data Sheets

Safety Data Sheets are (Right To Know) documentation prepared & given by the chemical manufacturer or importer that describes the following:

- What chemicals are in the product.
- Maximum time you can legally be exposed to the chemical.
- Is the product a fire or explosion hazard?
- How it enters/harms your body?
- How it affects your Health - Short and Long Term.
- What Personal Protection Equipment needs to be used.
- How do you handle the product safely?
- Hazards when product is combined with other chemicals?
- In the event of a spill or release, what should be done.

Safety Data Sheets that are GHS compliant are standardized to a 16 section format

- 1 Identification
- 2 Hazard(s) identification
- 3 Composition/information on ingredients
- 4 First-aid measures
- 5 Fire-fighting measures
- 6 Accidental release measures
- 7 Handling and storage
- 8 Exposure controls/personal protection
- 9 Physical and chemical properties
- 10 Stability and reactivity
- 11 Toxicological information
- 12 Ecological information
- 13 Disposal considerations
- 14 Transport information
- 15 Regulatory information
- 16 Other information, including date of preparation or last revision

| SAFETY DATA SHEET | | Page: 1 |
|--|---|---|
| Solvent Wipe #120 | | Printed: 05/25/2011 Revision: 09/12/2009 |
| 1. Product and Company Identification | | |
| Product Code: | SOLVENT #120 | |
| Product Name: | Solvent Wipe #120 | |
| Reference #: | AVS 1241014 | |
| Company Name: | Standardized Sanitation Systems, Inc. 141 Middlesex Turnpike Burlington, MA 01803 | |
| Emergency Contact Information: | Emergency | (404)422-2071 (617)273-2020 |
| Product Category: | Solvents | |
| 2. Hazards Identification | | |
| Flammable Liquids, Category 2 | | |
| Serious Eye Damage/Eye Irritation, Category 2A | | |
| Target Organ Systemic Toxicity (single exposure), Category 3 | | |
| | |   |
| | | Danger Warning |
| GHS Hazard Phrases: | H225: Highly flammable liquid and vapor H319: Causes serious eye irritation H335: May cause respiratory irritation. | |
| GHS Precaution Phrases: | P233: Keep container tightly closed. P210: Keep away from [heat/sparks/open flames/hot surfaces]. - No smoking. P280: Wear protective gloves/clothing and eye/face protection as specified by the manufacturer/supplier or the competent authority. P240: Ground/bond container and receiving equipment - if the explosive is electrostatically sensitive. P241: Use explosion-proof electrical/ventilating/lighting/... equipment ... other specified by the manufacturer/supplier or the competent authority. - if dust clouds can occur. P243: Take precautionary measures against static discharge. P242: Use only non-sparking tools. P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. | |
| GHS Response Phrases: | P370+378: In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority - if water increases risk. P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313: If eye irritation persists, get medical advice/attention. P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. | |
| GHS Storage and Disposal Phrases: | P403+235: Store in cool/well-ventilated place. P501: Dispose of contents/container to ... (in accordance with local/regional/national/international regulation). | |

Safety Data Sheets

- SDS must be convenient & readily accessible to all employees during their work shift and in each work area
- Read the SDS before you are exposed to the chemical. Know what you are working with first!
- SDS must be in English and include information regarding the specific chemical identity and common names
- SDS must be requested if a chemical is received without the information. Contact the manufacturers to get the full description of the chemicals with which you are working



GHS Labels

Labels on shipped containers must include:

- Product Identifier
- Signal Word
- Pictogram
- Hazard Statement(s)
- Precautionary Statement(s)
- Supplier Identification: Name, Address, Phone #

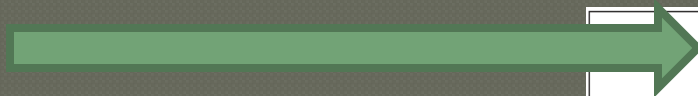
SAMPLE LABEL

| | |
|--|--|
| <p>CODE _____</p> <p>Product Name _____</p> <p>_____</p> <p>Company Name _____</p> <p>Street Address _____</p> <p>City _____ State _____</p> <p>Postal Code _____ Country _____</p> <p>Emergency Phone Number _____</p> | <p>Product Identifier</p> <p>Supplier Identification</p> |
|--|--|


| | |
|--|--|
| <p>Keep container tightly closed. Store in a cool, well-ventilated place that is locked. Keep away from heat/sparks/open flame. No smoking. Only use non-sparking tools. Use explosion-proof electrical equipment. Take precautionary measures against static discharge. Ground and bond container and receiving equipment. Do not breathe vapors. Wear protective gloves. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Dispose of in accordance with local, regional, national, international regulations as specified.</p> <p>In Case of Fire: use dry chemical (BC) or Carbon Dioxide (CO₂) fire extinguisher to extinguish.</p> <p>First Aid If exposed call Poison Center. If on skin (or hair): Take off immediately any contaminated clothing. Rinse skin with water.</p> | <p>Hazard Pictograms</p> <div style="text-align: center;">   </div> <p>Signal Word Danger</p> <p>Hazard Statements Highly flammable liquid and vapor. May cause liver and kidney damage.</p> <p>Precautionary Statements</p> <p>Supplemental Information Directions for Use _____ _____ _____</p> <p>Fill weight: _____ Lot Number: _____ Gross weight: _____ Fill Date: _____ Expiration Date: _____</p> |
|--|--|

Product Identifier

- The name used for a hazardous chemical on the label and in the SDS
- Provides a unique means by which the user can identify the chemical
- Shall permit cross-references among the list of hazardous chemicals, the label and the SDS



Product J
(abc chemical)

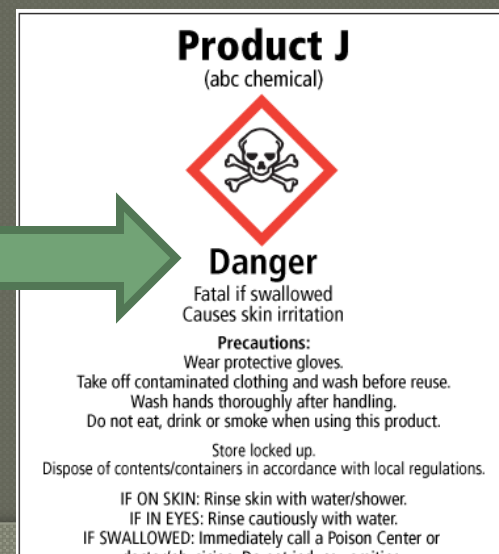
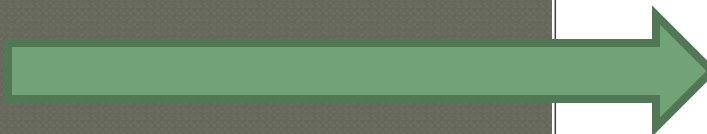


Danger
Fatal if swallowed
Causes skin irritation

Precautions:
Wear protective gloves.
Take off contaminated clothing and wash before reuse.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Store locked up.

Signal Word

- Used to indicate the relative level of severity of hazard and alert the reader to a potential hazard
- One, but not both, of the following
 - **Danger**—more severe hazard
 - **Warning**—less severe hazard



Hazard Statement

- Assigned to a hazard class and hazard category and describes the nature of the hazard

- Examples

Fatal if swallowed

May cause or intensify fire

Extremely flammable liquid or vapor

Heating may cause an explosion

Product J

(abc chemical)



Danger

Fatal if swallowed
Causes skin irritation

Precautions:

Wear protective gloves.

Take off contaminated clothing and wash before reuse.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Store locked up.

Dispose of contents/containers in accordance with local regulations.

IF ON SKIN: Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water.

IF SWALLOWED: Immediately call a Poison Center or doctor/physician. Do not induce vomiting.

ABC Chemical Co., 123 Anywhere St., (123) 456-7890

See the SDS for more information


Precautionary Statements

A phrase that describes recommended measures that should be taken to minimize or prevent adverse effects resulting from exposure or improper storage or handling.

- Prevention
- Response
- Storage
- Disposal

They can be combined or consolidated to save space on the label

Product J
(abc chemical)



Danger
Fatal if swallowed
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Precautions:
Wear protective gloves.
Take off contaminated clothing and wash before reuse.
Wash hands thoroughly after handling.
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ABC Chemical Co., 123 Anywhere St., (123) 456-7890
See the SDS for more information

GHS Pictograms

- Nine are designated by GHS
- Eight are adopted by OSHA
- No duplicates or blank diamonds allowed on the label
- Correct name for the diamond is “squares-on-point”



Product J
(abc chemical)



Danger
Fatal if swallowed
Causes skin irritation

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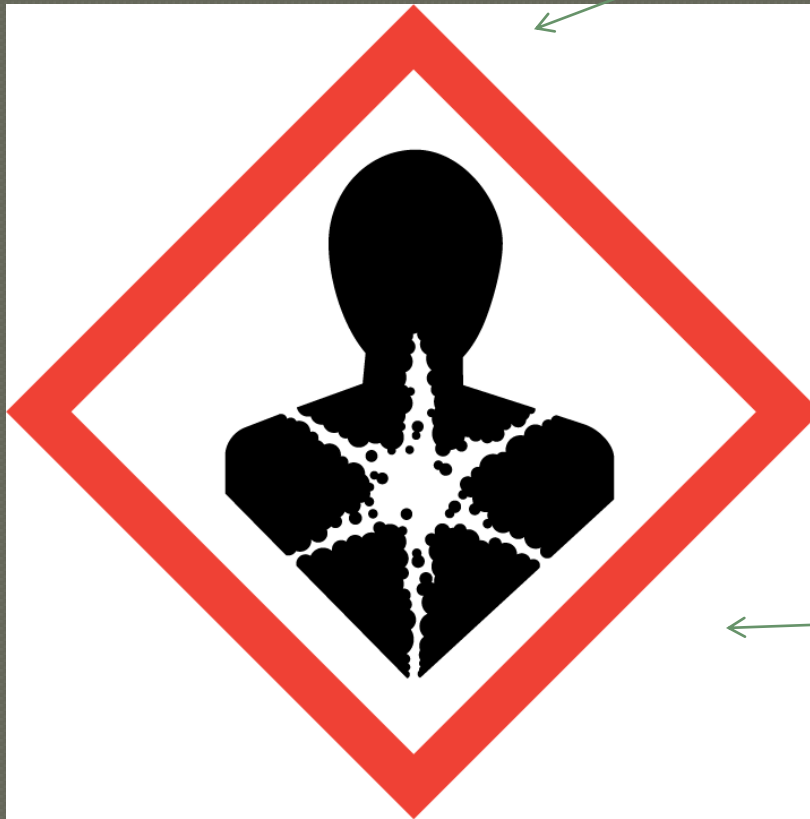
ABC Chemical Co., 123 Anywhere St., (123) 456-7890
See the SDS for more information

GHS Pictogram



Red
frame

Black hazard
symbol



White
background

Health Hazard

- Carcinogen
- Mutagenicity
- Reproductive Toxicity
- Respiratory Sensitizer
- Target Organ Toxicity
- Aspiration Toxicity



Skull and Crossbones

- Acute Toxicity



Flame

- Flammables
- Pyrophorics
- Self-Heating
- Emits Flammable Gas
- Self Reactives
- Organic Peroxides



Flame Over Circle

- Oxidizers



Corrosion

- Skin Corrosion/Burns
- Eye Damage
- Corrosive to Metals



Gas Cylinder

- Gases Under Pressure



Exploding Bomb

- Explosives
- Self-Reactives
- Organic Peroxides



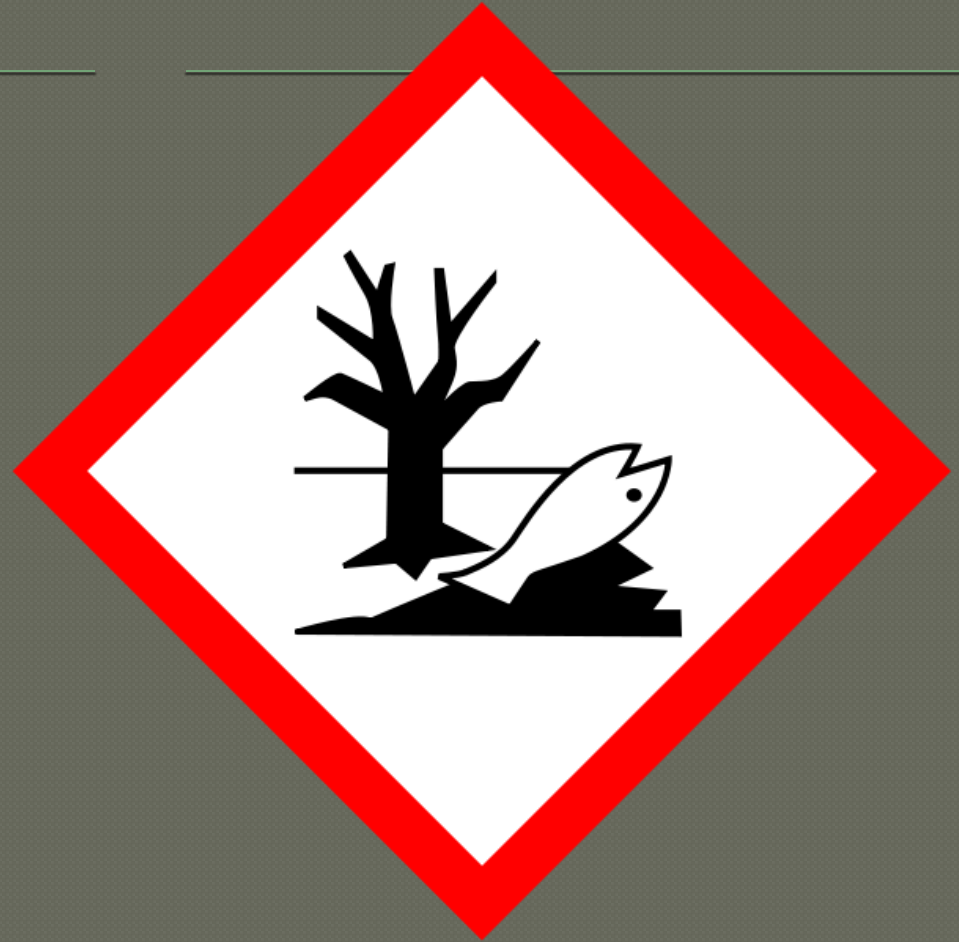
Exclamation Mark

- Irritant (skin and eye)
- Skin Sensitizer
- Acute Toxicity-low
- Narcotic Effects
- Respiratory Tract Irritant
- Hazardous to Ozone Layer
(-non-mandatory)
- (Low degree health hazard)



Environmental (non-mandatory)

- Aquatic Toxicity



What about transfer containers?

Do they need labels?

Under GHS, the manufacturer, importer, or distributor is required to label each container of hazardous chemicals. *If the hazardous chemicals are transferred into unmarked containers, these containers **must be labeled*** with the required information:*

- Product identifier
- Signal word
- Hazard statement(s)
- Pictogram

OR

- Product identifier and adequate information about the hazards

****A label is not required if the employee transferring chemical from the labeled container has full control of the chemical at all times and the container's contents are used up during that same shift.***

HAZCOM

Take quiz to receive credit for HAZCOM training.

Quiz: <https://secure.rutherfordcountyttn.gov/insquiz/hazcom.aspx>
Click link, enter SSN with dashes, take quiz, click submit. Your training will be recorded.

Questions or requests-

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